



# SEQUENCE LISTING

<110> Martelange, Valerie  
De Smet, Charles  
Boon-Falleur, Thierry

<120> TUMOR ASSOCIATED NUCLEIC ACIDS AND USES THEREFOR

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<150> US 09/183,789

<151> 1998-10-30

<150> US 09/060,706

<151> 1998-04-15

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<170> PatentIn version 3.2

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gtt cta cca ggg ctt gct tat ttg gca aca gct gat atg cca gcc atg 262

Val Leu Pro Gly Leu Ala Tyr Leu Ala Thr Ala Asp Met Pro Ala Met  
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Ser Thr Arg Asp Gln His Ala Thr Ile Ile His Asn Leu Arg Glu Glu

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aca cca gag ctt att Thr Pro Glu Leu Ile 85	aac ttg gca gga gct ggt Asn Leu Ala Gly Ala Gly 90	att cca ccc atg agt Ile Pro Pro Met Ser 95	406
acc agg gat cag tat Thr Arg Asp Gln Tyr 100	gct acc gtc aat cac cat Ala Thr Val Asn His His 105	gtc cat gaa gca agg Val His Glu Ala Arg 110	454
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agg gat ctg tat gct Arg Asp Leu Tyr Ala 145	acc att act cac agt Thr Ile Thr His Ser 150	gtt cgt gaa gag aag atg Val Arg Glu Glu Lys Met 155	598
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cag ctt ggt cat atg Gln Leu Gly His Met 180	gct gca ggt ggt Ala Ala Gly Gly 185	att cca tcc atg agt acc aag Ile Pro Ser Met Ser Thr Lys 190	694
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cag tat gct acc gtc Gln Tyr Ala Thr Val 245	act cac aat gtc cat Thr His Asn Val His 250	gaa gag aag att aaa aat Glu Glu Lys Ile Lys Asn 255	886
ggc caa gca gca tcc Gly Gln Ala Ala Ser 260	gat aat gtc ttc tcg Asp Asn Val Phe Ser 265	act gtt cca cca gca ttt Thr Val Pro Pro Ala Phe 270	934
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Phe Val Glu Phe Thr Ile Lys Glu Ala Ala Arg Phe Lys Lys Val Val	
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His Leu Arg Lys Val Lys His Met Arg Lys Arg	
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Lys Lys Asp Asn Ser Gln Pro Thr Pro Asp Asn Val Leu Ser Ala Val	
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Thr Arg Asp Gln Tyr Ala Thr Val Asn His His Val His Glu Ala Arg	
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Ser Gly Leu Ile Asn Met Ala Gly Ala Ser Ile Pro Ala Met Ser Ser  
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Glu Ser Gly Lys Pro Gln Thr Asp Lys Val Ile Ser Asn Asp Ala Pro  
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Gln Leu Gly His Met Ala Ala Gly Gly Ile Pro Ser Met Ser Thr Lys  
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Gln Tyr Ala Thr Val Thr His Asn Val His Glu Glu Lys Ile Lys Asn  
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Gly Gln Ala Ala Ser Asp Asn Val Phe Ser Thr Val Pro Pro Ala Phe  
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Ile Asn Met Ala Ala Thr Gly Val Ser Ser Met Ser Thr Arg Asp Gln  
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Tyr Ala Ala Val Thr His Asn Ile Arg Glu Glu Lys Ile Asn Asn Ser  
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Gln Pro Ala Pro Gly Asn Ile Leu Ser Thr Ala Pro Pro Trp Leu Arg  
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His Met Ala Ala Ala Gly Ile Ser Ser Thr Ile Thr Arg Asp Leu Tyr  
325 330 335

Val Thr Ala Thr His Ser Val His Glu Glu Lys Met Thr Asn Gly Gln  
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Met Thr Gly His Cys Met Pro Pro Asn Ala Leu Asp Ser Phe Ser His  
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 Met Glu Ser Gln Gly Val Pro Pro Gly Pro Tyr  
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 Arg Ala Thr Lys Leu Trp Asn Glu Val Thr Thr Ser Phe Arg Ala Gly  
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Met Pro Leu Arg Lys His Arg Gln His Phe Lys Lys Tyr Gly Asn Cys	
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Phe Thr Ala Gly Glu Ala Val Asp Trp Leu Tyr Asp Leu Leu Arg Asn	
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Asn Ser Asn Phe Gly Pro Glu Val Thr Arg Gln Gln Thr Ile Gln Leu	
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Leu Arg Lys Phe Leu Lys Asn His Val Ile Glu Asp Ile Lys Gly Arg	
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tgg gga tca gaa aat gtt gat gat aac aac cag ctc ttc aga ttt cct	399
Trp Gly Ser Glu Asn Val Asp Asp Asn Asn Gln Leu Phe Arg Phe Pro	
95 100 105	
gca act tcg cca ctt aaa act cta cca cga agg tat cca gaa ttg aga	447
Ala Thr Ser Pro Leu Lys Thr Leu Pro Arg Arg Tyr Pro Glu Leu Arg	
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Lys Asn Asn Ile Glu Asn Phe Ser Lys Asp Lys Asp Ser Ile Phe Lys	
125 130 135	
tta cga aac tta tct cgt aga act cct aaa agg cat gga tta cat tta	543
Leu Arg Asn Leu Ser Arg Arg Thr Pro Lys Arg His Gly Leu His Leu	
140 145 150 155	
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Ser Gln Glu Asn Gly Glu Lys Ile Lys His Glu Ile Ile Asn Glu Asp	
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Gln Glu Asn Ala Ile Asp Asn Arg Glu Leu Ser Gln Glu Asp Val Glu	
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Glu Val Trp Arg Tyr Val Ile Leu Ile Tyr Leu Gln Thr Ile Leu Gly	
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Tyr Ile Met Tyr Asn Met Ala Asn Thr Ser Lys Arg Gly Val Val Ile	
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Leu Gln Asn Lys Ser Asp Asp Leu Pro His Trp Val Leu Ser Ala Met	
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Leu	Asp	Leu	Pro	Glu	Pro	Leu	Leu	Thr	Phe	Glu	Tyr	Tyr	Glu	Leu	Phe	
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Lys	Leu	Gln	Leu	Leu	Met	Arg	Met	Ile	Ser	Arg	Met	Ser	Gln	Asn	Val	
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Asp	Met	Pro	Lys	Leu	His	Asp	Ala	Met	Gly	Thr	Arg	Ser	Leu	Met	Ile	
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His	Thr	Phe	Ser	Arg	Cys	Val	Leu	Cys	Cys	Ala	Glu	Glu	Val	Asp	Leu	
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Gln	Glu	Ile	Leu	Gln	Val	Pro	Ser	Tyr	Leu	Gln	Thr	Ala	Val	Glu	Lys	
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Gln	Glu	Phe	Asp	Glu	Gln	Lys	Val	Ser	Thr	Ser	Gln	Ala	Ala	Ile	Ala	
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gaa	ctt	tta	gaa	aat	att	att	aaa	aac	agg	agt	tta	cct	cta	aag	gag	1503
Glu	Leu	Leu	Glu	Asn	Ile	Ile	Lys	Asn	Arg	Ser	Leu	Pro	Leu	Lys	Glu	
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aaa cct aca atc aag caa cca atg ctg att tta aga aaa cca aag ttc			1647
Lys Pro Thr Ile Lys Gln Pro Met Leu Ile Leu Arg Lys Pro Lys Phe			
510	515	520	
cgt agt cta aga taactaactg aattaaatat tatgtaatac ttgtggaact			1699
Arg Ser Leu Arg			
525			
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His Arg Gln His Phe Lys Lys Tyr Gly Asn Cys Phe Thr Ala Gly Glu

35

40

45

Ala Val Asp Trp Leu Tyr Asp Leu Leu Arg Asn Asn Ser Asn Phe Gly  
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Pro Glu Val Thr Arg Gln Gln Thr Ile Gln Leu Leu Arg Lys Phe Leu  
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Lys Asn His Val Ile Glu Asp Ile Lys Gly Arg Trp Gly Ser Glu Asn  
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Val Asp Asp Asn Asn Gln Leu Phe Arg Phe Pro Ala Thr Ser Pro Leu  
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Lys Thr Leu Pro Arg Arg Tyr Pro Glu Leu Arg Lys Asn Asn Ile Glu  
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Asn Phe Ser Lys Asp Lys Asp Ser Ile Phe Lys Leu Arg Asn Leu Ser  
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Arg Arg Thr Pro Lys Arg His Gly Leu His Leu Ser Gln Glu Asn Gly  
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Glu Lys Ile Lys His Glu Ile Ile Asn Glu Asp Gln Glu Asn Ala Ile  
165 170 175

Asp Asn Arg Glu Leu Ser Gln Glu Asp Val Glu Glu Val Trp Arg Tyr  
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Val Ile Leu Ile Tyr Leu Gln Thr Ile Leu Gly Val Pro Ser Leu Glu  
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Glu Val Ile Asn Pro Lys Gln Val Ile Pro Gln Tyr Ile Met Tyr Asn  
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Met Ala Asn Thr Ser Lys Arg Gly Val Val Ile Leu Gln Asn Lys Ser  
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Asp Asp Leu Pro His Trp Val Leu Ser Ala Met Lys Cys Leu Ala Asn  
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260 265 270

Arg Asp Val Phe Arg Thr Ile Ala Asp Tyr Phe Leu Asp Leu Pro Glu  
275 280 285

Pro Leu Leu Thr Phe Glu Tyr Tyr Glu Leu Phe Val Asn Ile Leu Gly  
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Leu Leu Gln Pro His Leu Glu Arg Val Ala Ile Asp Ala Leu Gln Leu  
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Cys Cys Leu Leu Leu Pro Pro Pro Asn Arg Arg Lys Leu Gln Leu Leu  
325 330 335

Met Arg Met Ile Ser Arg Met Ser Gln Asn Val Asp Met Pro Lys Leu  
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His Asp Ala Met Gly Thr Arg Ser Leu Met Ile His Thr Phe Ser Arg  
355 360 365

Cys Val Leu Cys Cys Ala Glu Glu Val Asp Leu Asp Glu Leu Leu Ala  
370 375 380

Gly Arg Leu Val Ser Phe Leu Met Asp His His Gln Glu Ile Leu Gln  
385 390 395 400

Val Pro Ser Tyr Leu Gln Thr Ala Val Glu Lys His Leu Asp Tyr Leu  
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Lys Lys Gly His Ile Glu Asn Pro Gly Asp Gly Leu Phe Ala Pro Leu  
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Pro Thr Tyr Ser Tyr Cys Lys Gln Ile Ser Ala Gln Glu Phe Asp Glu  
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Gln Lys Val Ser Thr Ser Gln Ala Ala Ile Ala Glu Leu Leu Glu Asn  
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Lys Gln Phe Gln Lys Glu Tyr Pro Leu Ile Tyr Gln Lys Arg Phe Pro  
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